

a) from about 0.05 to .15% carbon;
b) from about 5.0 to 12.0% manganese;
c) from about 2.0 to 6.0% silicon;
d) from about 12.0 to 20.0% chromium;
e) from about 6.0 to 12.0% nickel;
f) from about 0.02 to 0.8% nitrogen;

with the remainder being iron,

wherein said insert exhibits improved yield strength when inserted into said tapped hole.

C1 § 50. (Twice Amended) A helically coiled screw thread insert disposable within a tapped hole or nut for receiving a threaded fastener, said insert being formed from an alloy comprising:

C2 a) from about 0.05 to 0.15% carbon; b) from about 5.0 to 12.0% manganese; c) from about 2.0 to 6.0% silicon; d) from about 12.0 to 20.0% chromium; e) from about 6.0 to 12.0% nickel; f) from about 0.02 to 0.8% nitrogen; with the remainder being iron, said insert exhibiting improved yield strength when inserted into said tapped hole or nut.

C3 § 50. (Twice Amended) A helically coiled screw thread insert disposable within a tapped hole or nut for receiving a threaded fastener, said insert being formed from an alloy comprising:

a) from about 0.08 to 0.1% carbon; b) from about 7.0 to 9.0% manganese; c) from about 3.5 to 4.5% silicon; d) from about 16.0 to 18.0% chromium; e) from about 8.0 to 9.0% nickel; f) from about 0.08 to 0.18% nitrogen; with the remainder being iron, said insert exhibiting improved yield strength when inserted into said tapped hole or nut.

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